FIG. 1

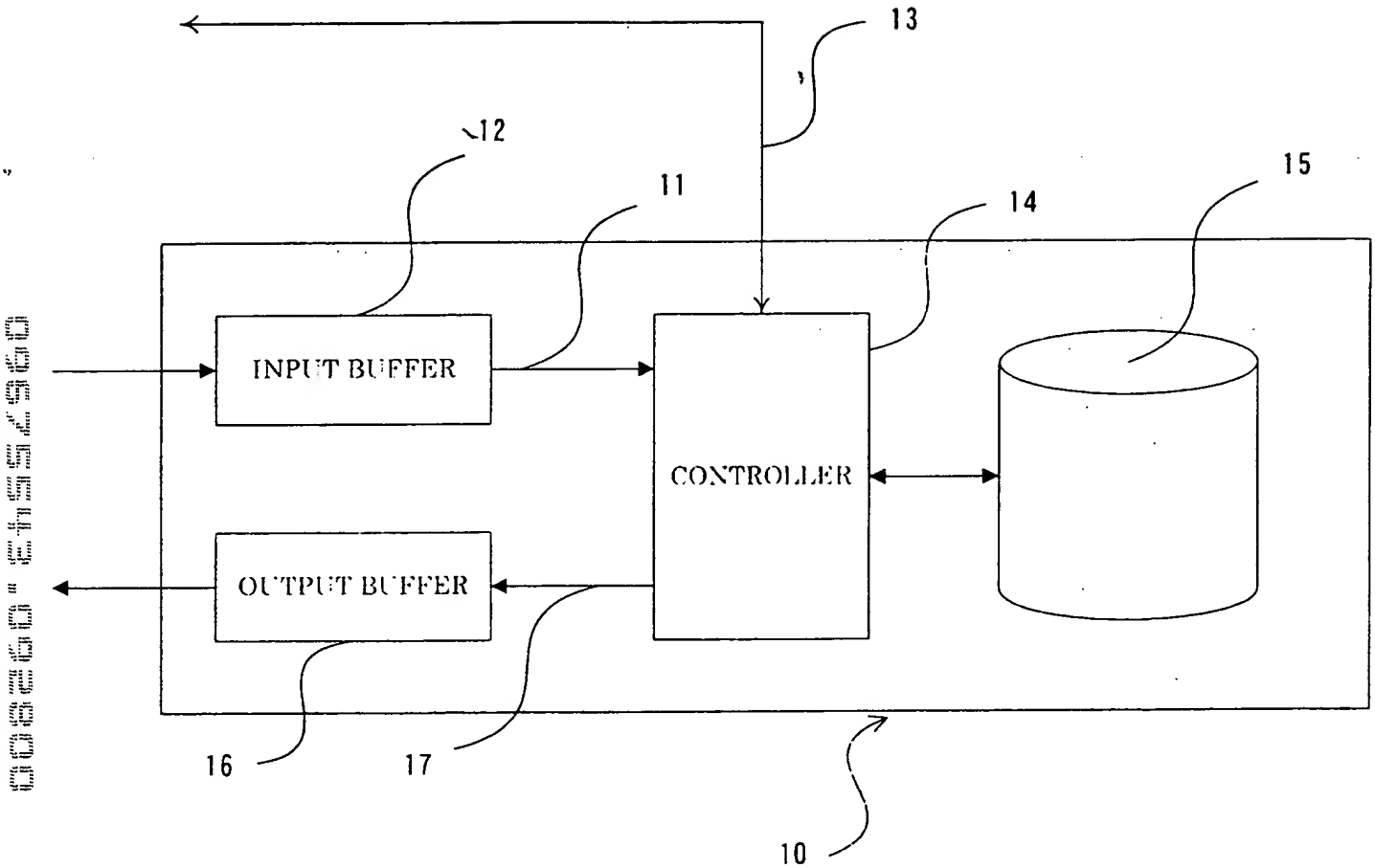

FIG. 2

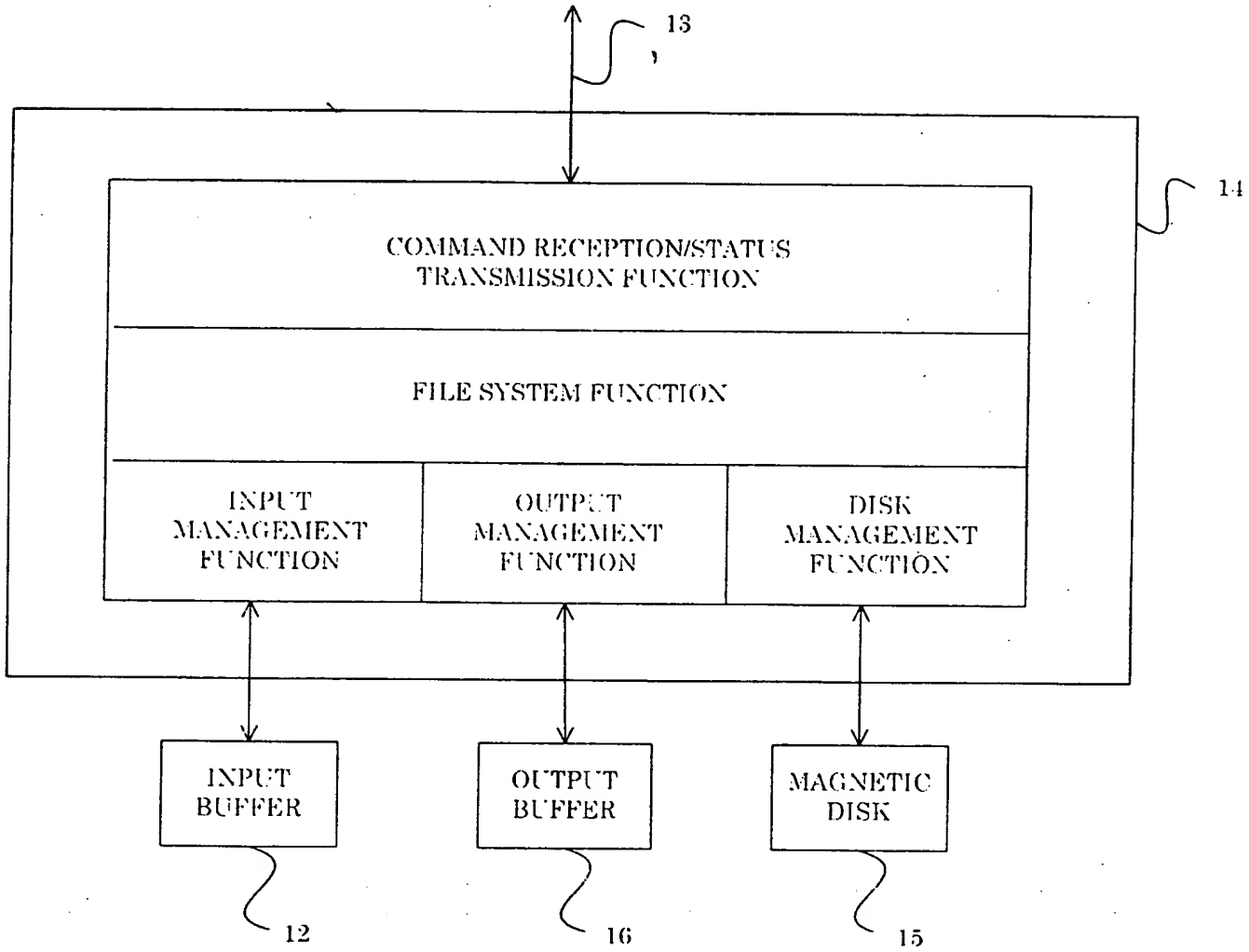
13
14
COMMAND RECEPTION/STATUS TRANSMISSION FUNCTION
FILE SYSTEM FUNCTION
INPUT MANAGEMENT FUNCTION
OUTPUT MANAGEMENT FUNCTION
DISK MANAGEMENT FUNCTION
INPUT BUFFER
OUTPUT BUFFER
MAGNETIC DISK
12
16
15

FIG. 3

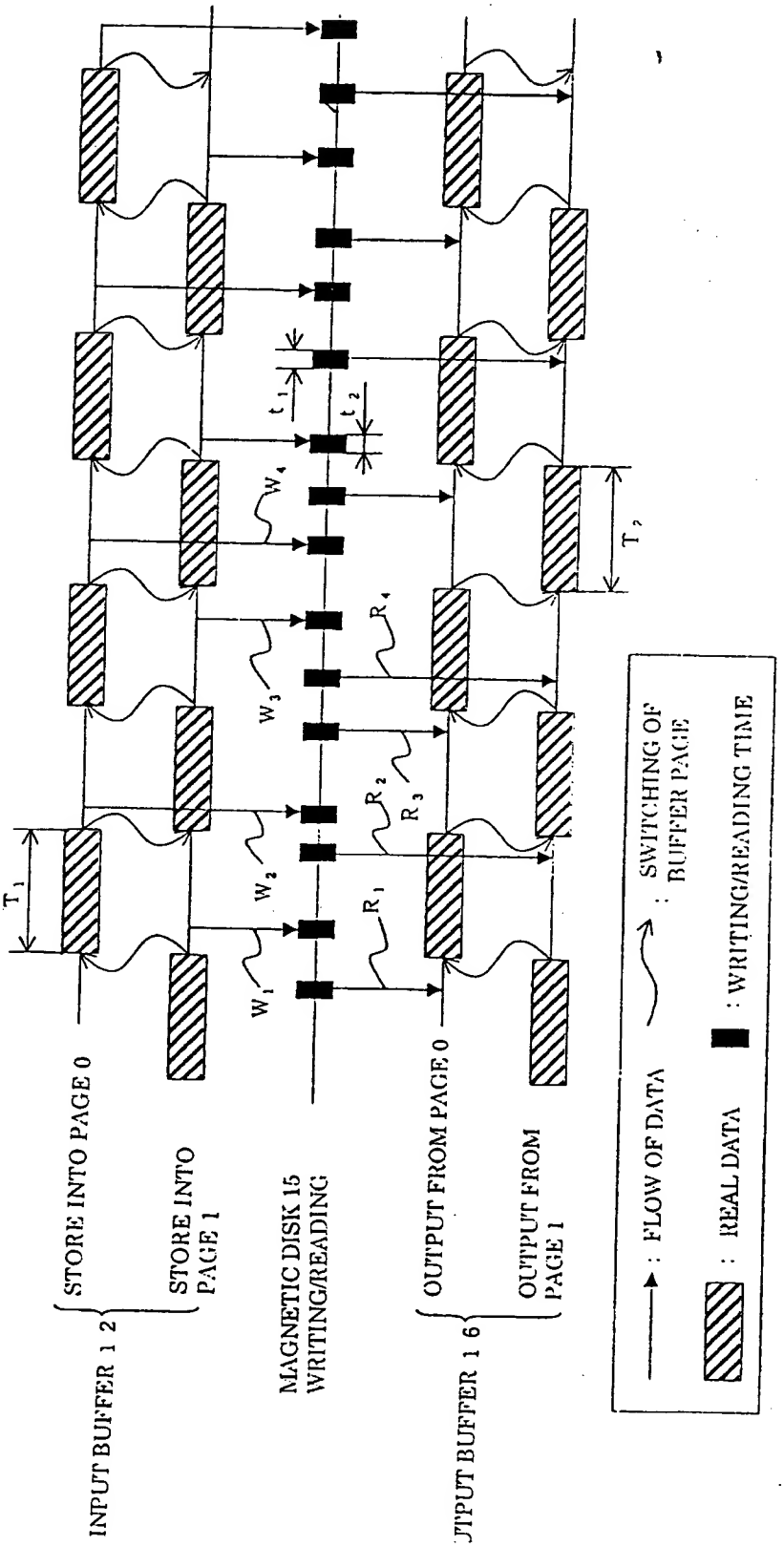
INPUT BUFFER 12
STORE INTO PAGE 0
STORE INTO PAGE 1
MAGNETIC DISK 15 WRITING/READING
OUTPUT BUFFER 16
OUTPUT FROM PAGE 0
OUTPUT FROM PAGE 1
T1
T2
t1
t2
W1
W2
W3
W4
R1
R2
R3
R4
: FLOW OF DATA
: SWITCHING OF BUFFER PAGE
: REAL DATA
: WRITING/READING TIME

FIG. 4

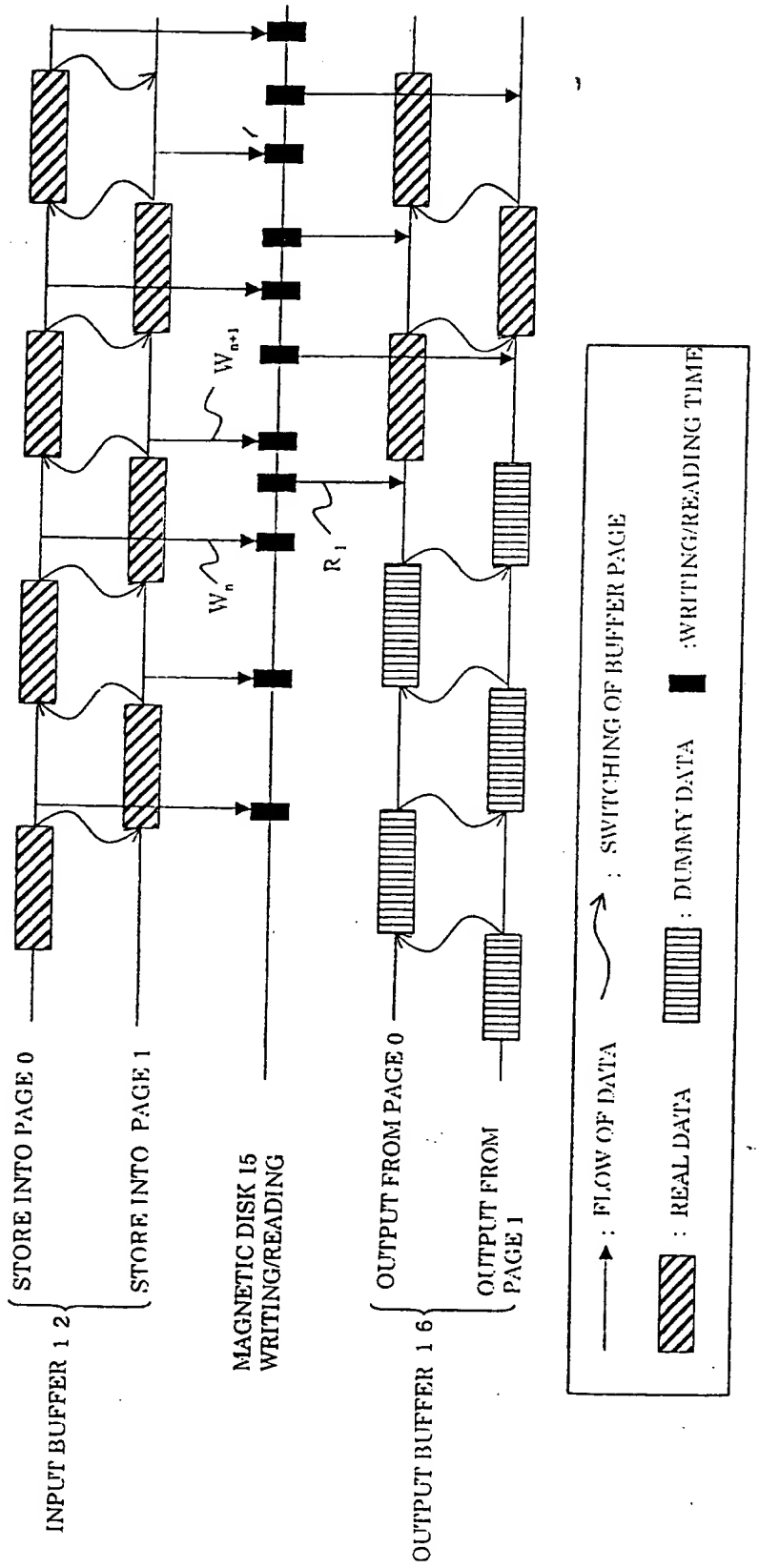
INPUT BUFFER 12
STORE INTO PAGE 0
STORE INTO PAGE 1
MAGNETIC DISK 15
WRITING/READING
W_n
W_{n+1}
R_1
OUTPUT BUFFER 16
OUTPUT FROM PAGE 0
OUTPUT FROM PAGE 1
: FLOW OF DATA
: SWITCHING OF BUFFER PAGE
: REAL DATA
: DUMMY DATA
: WRITING/READING TIME

FIG. 5

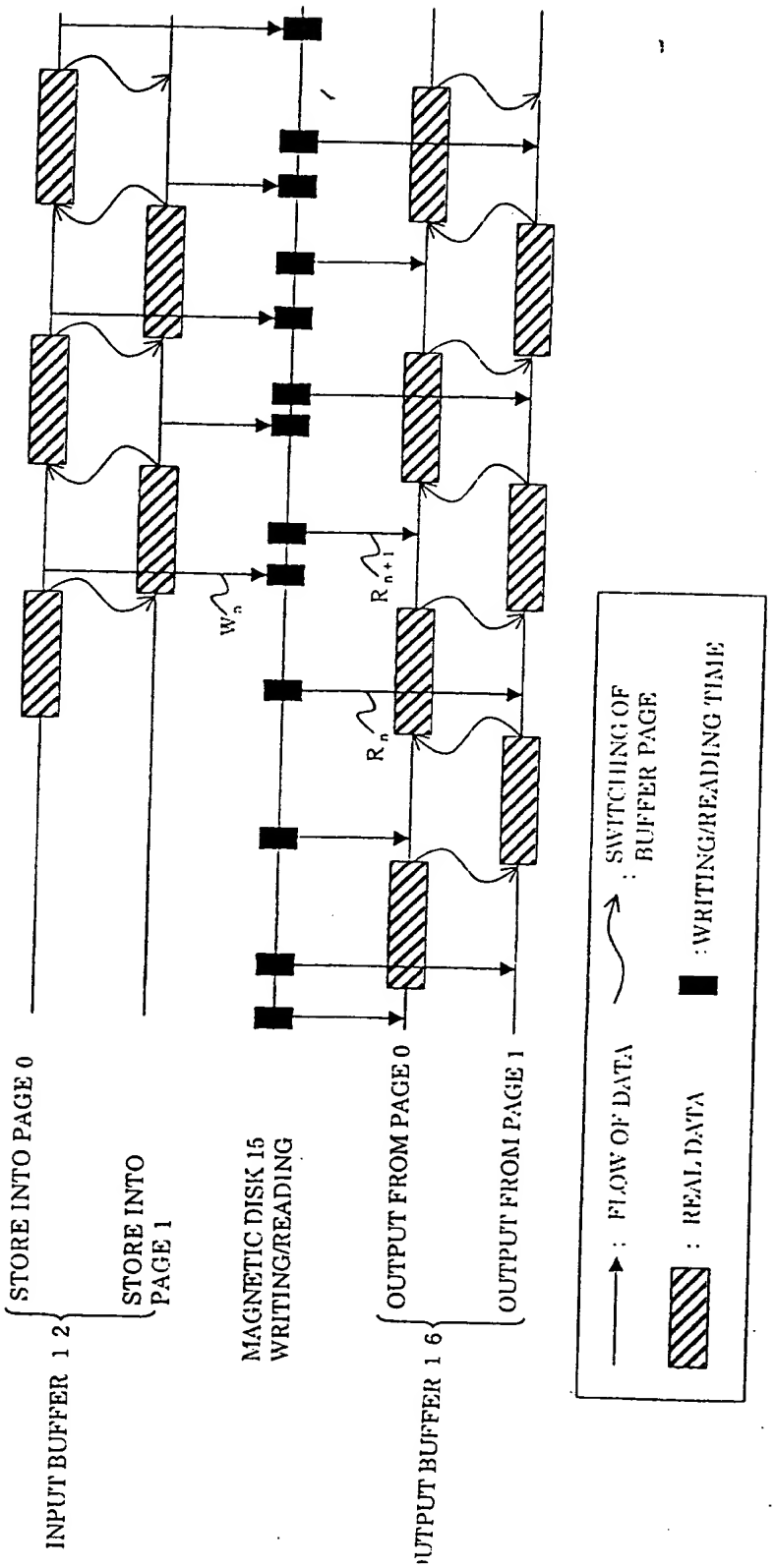
INPUT BUFFER 12
STORE INTO PAGE 0
STORE INTO PAGE 1
MAGNETIC DISK 15 WRITING/READING
OUTPUT BUFFER 16
OUTPUT FROM PAGE 0
OUTPUT FROM PAGE 1
W_n
R_n
R_{n+1}
: FLOW OF DATA
: SWITCHING OF BUFFER PAGE
: REAL DATA
: WRITING/READING TIME

FIG. 6

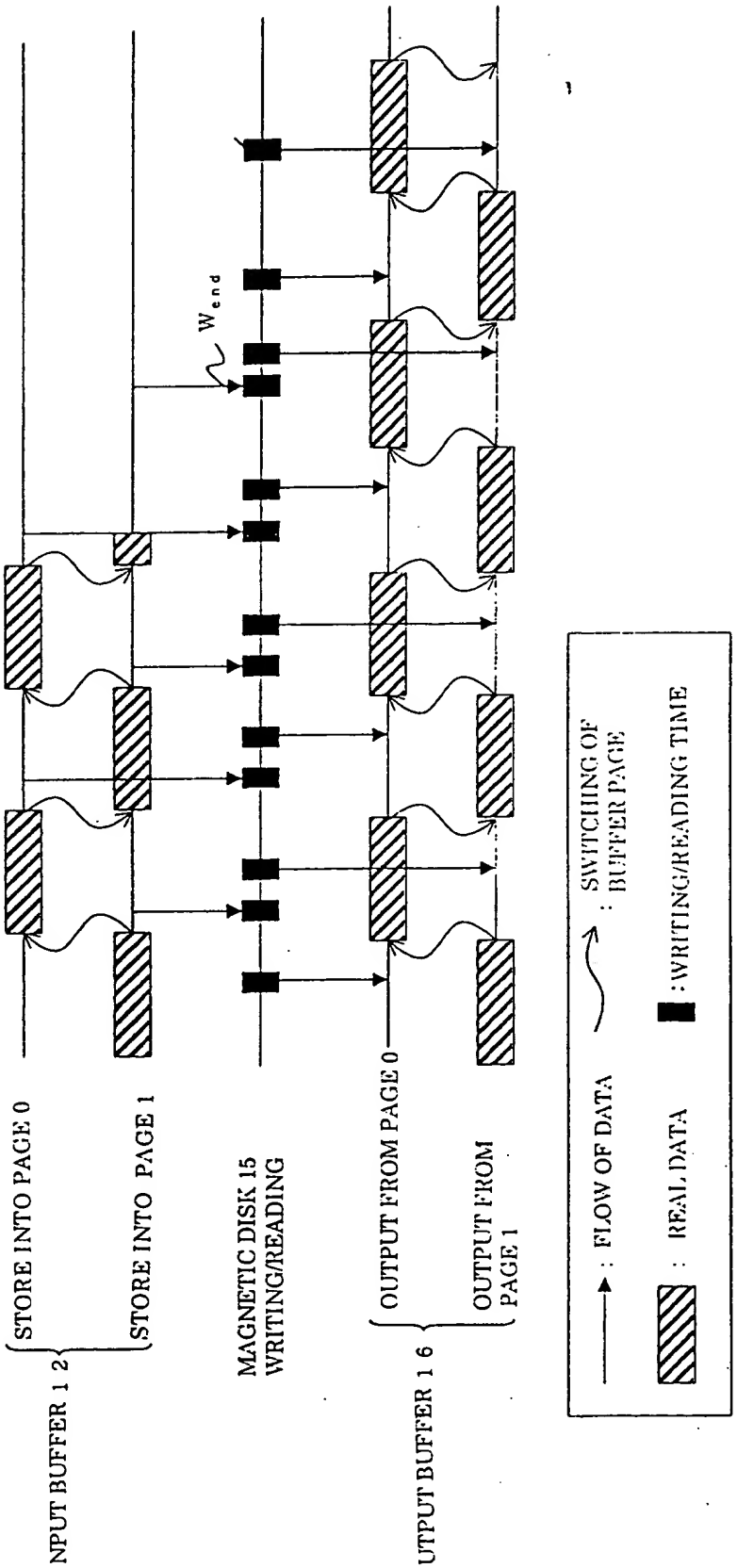
INPUT BUFFER 12
STORE INTO PAGE 0
STORE INTO PAGE 1
MAGNETIC DISK 15
WRITING/READING
W_{end}
OUTPUT BUFFER 16
OUTPUT FROM PAGE 0
OUTPUT FROM PAGE 1
: FLOW OF DATA
: SWITCHING OF BUFFER PAGE
: REAL DATA
: WRITING/READING TIME

FIG. 7

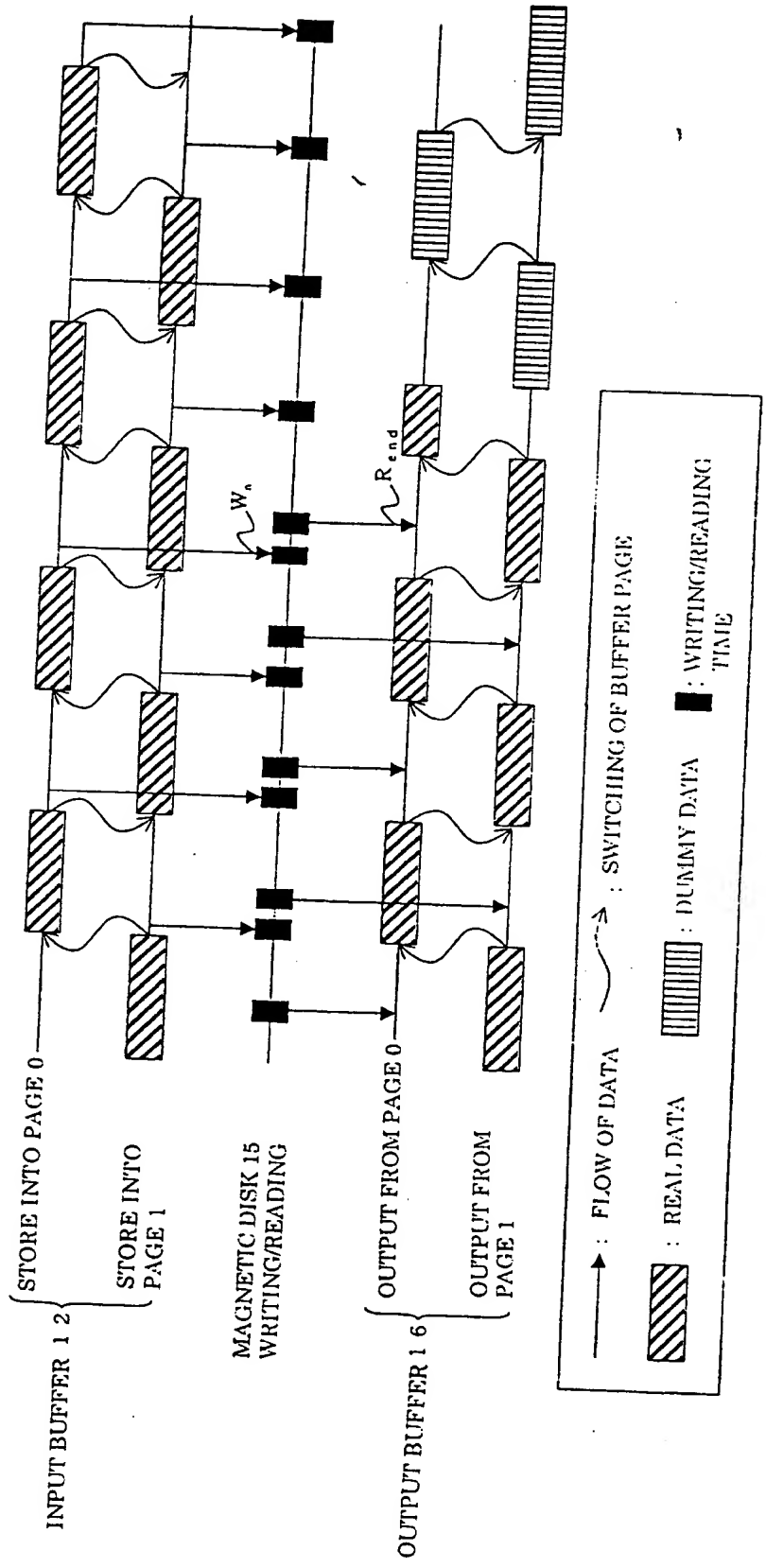
INPUT BUFFER 1 2
STORE INTO PAGE 0
STORE INTO PAGE 1
MAGNETIC DISK 15 WRITING/READING
W_0
R_{end}
OUTPUT BUFFER 1 6
OUTPUT FROM PAGE 0
OUTPUT FROM PAGE 1
: FLOW OF DATA
: SWITCHING OF BUFFER PAGE
: REAL DATA
: DUMMY DATA
: WRITING/READING TIME

FIG. 8

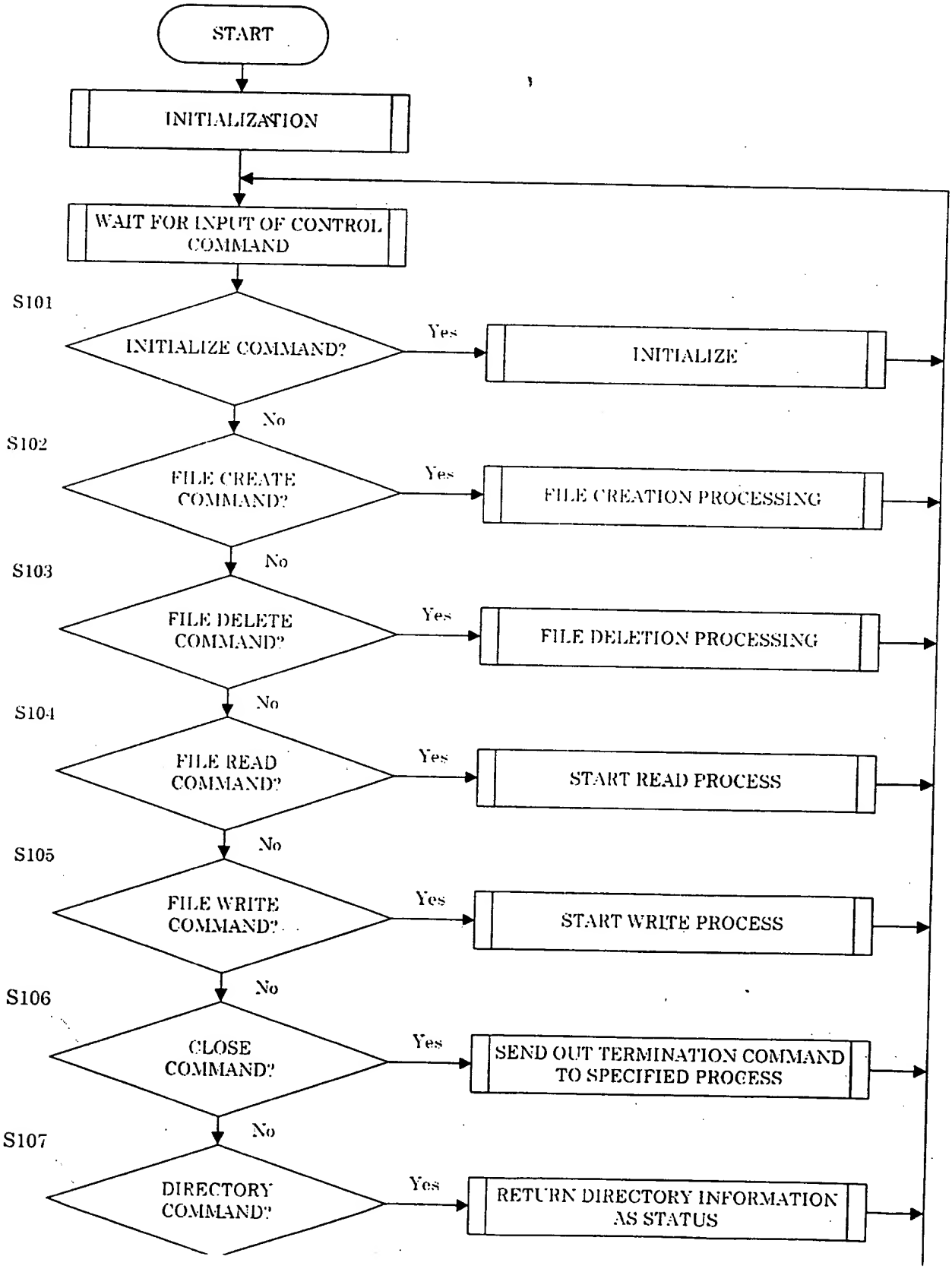
START
INITIALIZATION
WAIT FOR INPUT OF CONTROL COMMAND
S101
INITIALIZE COMMAND?
Yes
INITIALIZE
No
S102
FILE CREATE COMMAND?
Yes
FILE CREATION PROCESSING
No
S103
FILE DELETE COMMAND?
Yes
FILE DELETION PROCESSING
No
S104
FILE READ COMMAND?
Yes
START READ PROCESS
No
S105
FILE WRITE COMMAND?
Yes
START WRITE PROCESS
No
S106
CLOSE COMMAND?
Yes
SEND OUT TERMINATION COMMAND TO SPECIFIED PROCESS
No
S107
DIRECTORY COMMAND?
Yes
RETURN DIRECTORY INFORMATION AS STATUS

FIG. 9

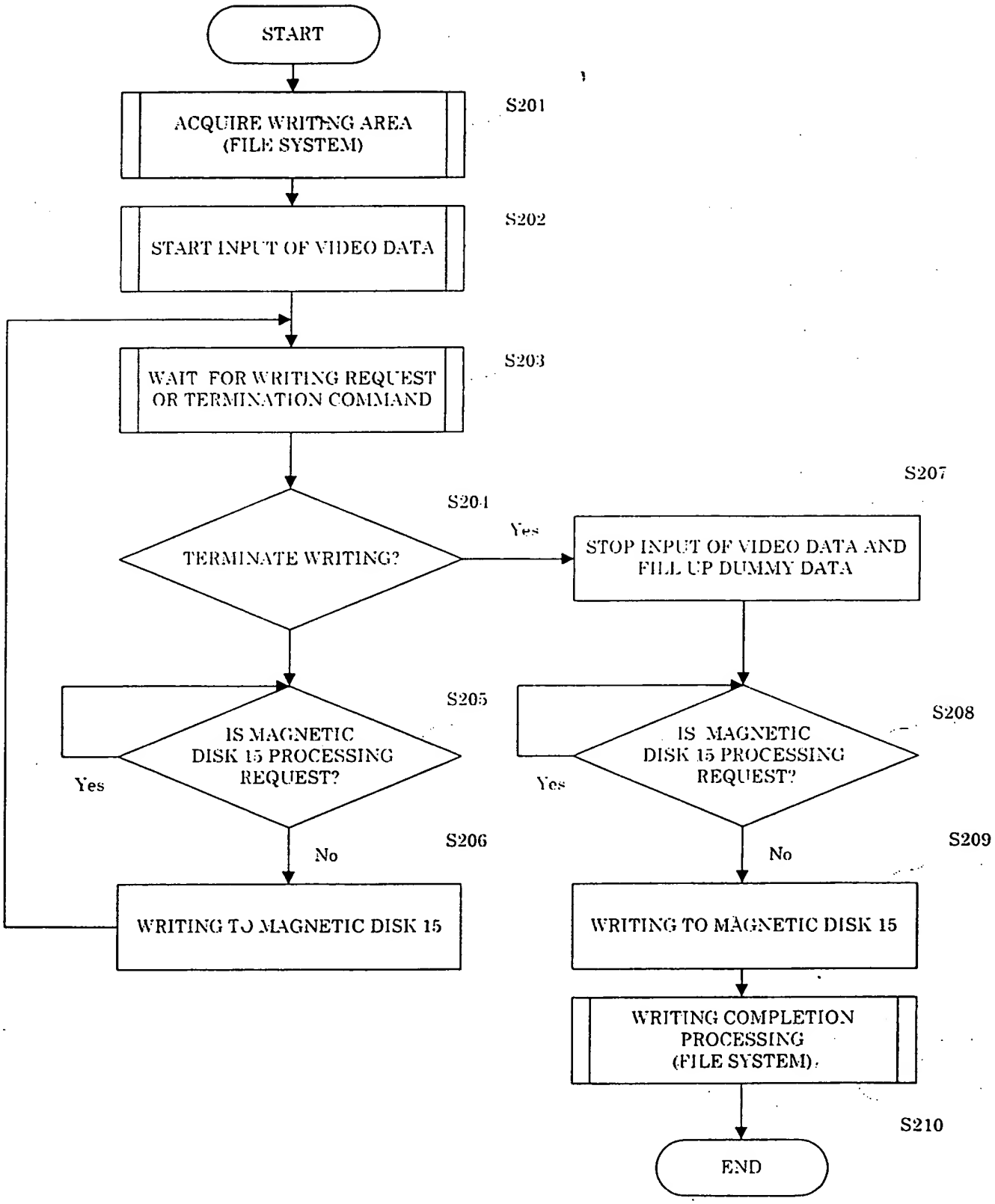
START
ACQUIRE WRITING AREA (FILE SYSTEM)
S201
START INPUT OF VIDEO DATA
S202
WAIT FOR WRITING REQUEST OR TERMINATION COMMAND
S203
TERMINATE WRITING?
S204
Yes
STOP INPUT OF VIDEO DATA AND FILL UP DUMMY DATA
S207
IS MAGNETIC DISK 15 PROCESSING REQUEST?
S205
Yes
No
S206
WRITING TO MAGNETIC DISK 15
IS MAGNETIC DISK 15 PROCESSING REQUEST?
S208
Yes
No
S209
WRITING TO MAGNETIC DISK 15
WRITING COMPLETION PROCESSING (FILE SYSTEM)
S210
END

FIG. 10

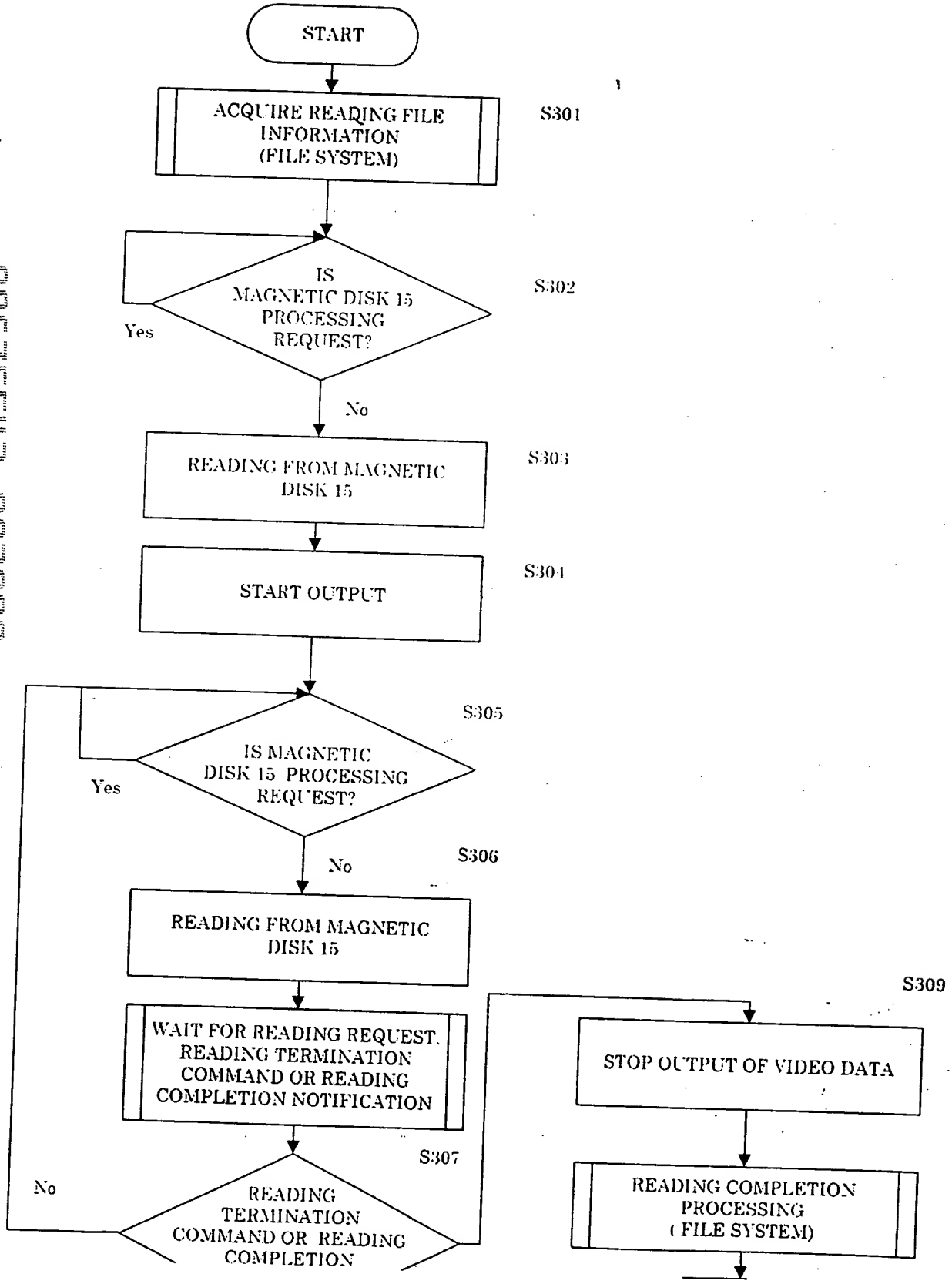
START
ACQUIRE READING FILE INFORMATION (FILE SYSTEM)
S301
IS MAGNETIC DISK 15 PROCESSING REQUEST?
S302
Yes
No
READING FROM MAGNETIC DISK 15
S303
START OUTPUT
S304
IS MAGNETIC DISK 15 PROCESSING REQUEST?
S305
Yes
No
S306
READING FROM MAGNETIC DISK 15
WAIT FOR READING REQUEST, READING TERMINATION COMMAND OR READING COMPLETION NOTIFICATION
S307
No
READING TERMINATION COMMAND OR READING COMPLETION
S309
STOP OUTPUT OF VIDEO DATA
READING COMPLETION PROCESSING (FILE SYSTEM)

FIG. 11

FUNCTION	COMMAND	PARAMETERS	EXPLANATION
INITIALIZATION	INIT	NONE	INITIALIZE ALL
CREATION OF FILE	CREATE	FILE NAME, ADDITIONAL INFORMATION	IN PREPARATION FOR WRITING OF FILE, EMPTY FILE IS PREPARED, AND ADDITIONAL INFORMATION IS STORED IN DIRECTORY
DELETION OF FILE	DELETE	FILE NAME	SPECIFIED FILE IS DELETED, AND RELEASE STORAGE AREA
READING OF FILE	READ	FILE NAME, POSITION OF STARTING READING	SPECIFIED FILE IS READ FROM SPECIFIED POSITION, AND SENT OUT FROM OUTPUT SYSTEM
WRITING OF FILE	WRITE	FILE NAME	DATA INPUT FROM INPUT SYSTEM IS STORED IN SPECIFIED FILE
CLOSE	CLOSE	FILE NAME	READING OR WRITING OF SPECIFIED FILE IS COMPLETED, AND DATA REMAINING IN INPUT BUFFER IS STORED IN CASE OF WRITING
DIRECTORY	DIRECTORY	NONE	FILE NAME, SIZE, RECORDING DATE/TIME AND ADDITIONAL INFORMATION ARE RETURNED AS STATUS INFORMATION

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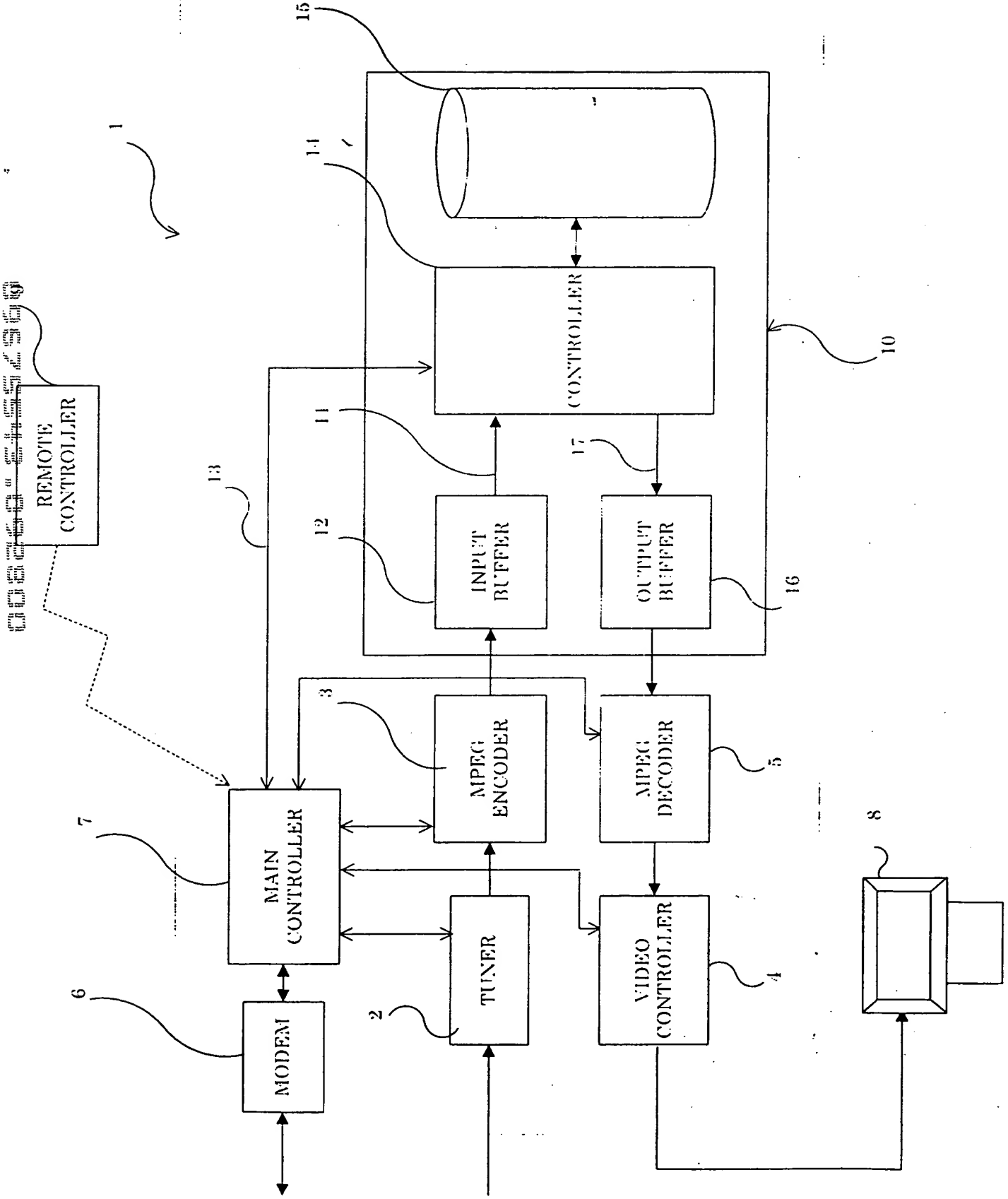
FIG. 12


1
15
14
CONTROLLER
10
REMOTE CONTROLLER
11
17
13
12
INPUT BUFFER
OUTPUT BUFFER
16
3
MPEG ENCODER
MPEG DECODER
5
7
MAIN CONTROLLER
8
TUNER
VIDEO CONTROLLER
4
6
2
MODEM